



Linux Command Quick Reference

Rick Crisci



Shortcuts

- Ctrl-L clears the screen
- Ctrl-C stops the current in-progress command
- Up arrow shows previous commands
- history will show the history of commands you have run
- Ctrl-A moves the cursor to the beginning of the line
- Ctrl-E moves the cursor to the end of the line
- Tab automatically completes commands

cat (Concatenate)

`cat /var/log/auth.log`

- *View the contents of a log file*

cd (Change directory)

`cd`

- *Change directory*

`cd /`

- *Change to the root directory*

`cd ..`

- *Move up one directory*

cp (Copy)

```
cp text.txt text2.txt
```

- Copies text.txt to a new file called text2.txt

```
cp text.txt text2.txt
```

- Overwrites the existing text2.txt with a copy of text.txt

df -h

```
df -h
```

- Displays free space on storage devices

diff

```
diff diff.txt diff2.txt
```

- Compares the two text files

echo

```
echo trainertests.com >> diff.txt
```

- Add text to the diff.txt file

find

```
find /var -name *.log
```

- Searches within /var and subdirectories

grep

```
grep user /etc/ssh/ssh_config
```

- Displays any lines of the file ssh_config that include the term user

```
grep -i "COMMAND LINE" /etc/ssh/ssh_config
```

- Use quotes if the string has spaces
- -i option: Ignore upper/lower case

```
grep -R 127.0.0.1 /etc/
```

- Search all files in the etc directory

```
grep user /etc/ssh/ssh_config > sample.txt
```

- Sends search results to a text file

`ls | grep crontab`

- *Sends command output to a text file*

`head`

`head cloud-init.log`

- *Displays the first 10 lines of the file*

`head -n 5 cloud-init.log`

- *Displays the first 5 lines of the file*

`id`

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- *Show the user you are logged in as and the groups you are part of*

`ifconfig`

`ifconfig`

- *Display all network interfaces*

`locate`

`locate cloud-init.log`

- *Displays directory containing cloud-init.log*

`locate -I cloud-init.log`

- *Displays directory containing cloud-init.log and ignores case*

`ls (List)`

`ls`

- *List files in the current directory*

`ls -all or ls -a`

- *List files in the current directory including hidden files*

`ls -a /var/`

- *List files in the /var directory*

man (manual)

man ls

- *To navigate and search:*
 - ctrl-f
 - ctrl-b
 - g
 - G
 - /string
- *To display help:*
 - h
- *To quit:*
 - q

man -k ifconfig

- *Search all man files for ifconfig*

man -k "copy files"

- *Search all man files for the sting in quotes*

mkdir (Make directory)

mkdir test

- *Create a new directory called test*

mkdir -p test2/test2

- *Make directory and subdirectory in a single command*

mkdir test2 test3

- *Make multiple directories*

mv (Move)

mv text.txt test/

- *Moves text.txt to a different directory*

mv *.txt test/

- *Moves all txt files to a different directory*

nano

`nano text.txt`

- *Allows you to edit the text file*

netstat

`netstat -r`

- *Display the route table*

`netstat -np | grep "80"`

- *Display open connections for a specific port*

ping

`ping 8.8.8.8`

- *Test the destination at 8.8.8.8 by sending ICMP packets*

`ping -c 5 8.8.8.8`

- *Test the destination at 8.8.8.8 by sending five ICMP packets*

pwd (Print working directory)

`pwd`

- *Display the current directory*

rm (remove)

`rmr test/text.txt`

- *Deletes the text.txt file in the directory called test*

rmdir (remove directory)

`rmdir test`

- *Remove the directory called test*

sudo (super user do)

`sudo su`

- *Allows a user to run commands as root*
- *The user must have permissions to do this*

`exit`

- *Exit out of sudo*

`tail`

`tail -n 5 cloud-init.log`

- *Displays the last 5 lines of the file*

`touch`

`touch text.txt`

- *Create a new file called text.txt*

`tree`

`tree test/`

- *List all files and subfolders and files within subfolders within the test directory*